



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Research on the Effects of Different Phosphorus Doses on Root, Nodule and  
Plant Growth in Some Vetch Species

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**Abstract:** This research was conducted to determine the effects of different phosphorus doses (0, 4, 8 and 12 kg P<sub>2</sub>O<sub>5</sub>/da) on root, above-ground biomass and nodule development of vetch species (*Vicia villosa* Roth., *V. pannonica* Crantz. and *V. sativa* L.) in the experimental field of the Agricultural Faculty of Gaziosmanpaşa University in the 1997-98 growing season. Common vetch had the highest above-ground biomass, number of nodules on the lateral roots and total nodule number, whereas Hungarian vetch had the highest root biomass, number of nodules on the main root and nodule dry weight. Phosphorus fertilization enhanced all the parameters investigated. It was concluded that a phosphorus dose of 12 kg/da could be recommended for optimal root, stem and nodule development in the vetch species studied.

**Key Words:** Phosphorus, common vetch, Hungarian vetch, hairy vetch, nodule.

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